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**Rear window heater used as diversity antenna for car - has several heater segments with own antenna extraction decoupling circuitry used e.g. for VHF radio**

Patent Assignee: KOLBE & CO HANS (KOLB-N); LINDENMEIER H (LIND-I)

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Number of Countries: 011 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3618452	A	19871203	DE 3618452	A	19860602	198749 B
WO 8707770	A	19871217	WO 87EP297	A	19870605	198751
EP 269723	A	19880608	EP 87904246	A	19870605	198823
US 4914446	A	19900403	US 88162402	A	19880212	199019
EP 269723	B1	19930331	EP 87904246	A	19870605	199313
			WO 87EP297	A	19870605	
DE 3785155	G	19930506	DE 3785155	A	19870605	199319
			EP 87904246	A	19870605	
			WO 87EP297	A	19870605	
DE 3618452	C2	19970410	DE 3618452	A	19860602	199719

Priority Applications (No Type Date): DE 3618452 A 19860602

Cited Patents: EP 197650; JP 56157138; JP 58070641; JP 60136435; 3.Jnl.Ref; EP 65263

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 3618452	A	18			
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WO 8707770	A	G			
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Designated States (National): US

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

EP 269723	A	G			
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Designated States (Regional): DE FR GB IT NL SE

EP 269723	B1	G	25	H01Q-001/32	Based on patent WO 8707770
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Designated States (Regional): DE FR GB IT NL SE

DE 3785155	G			H01Q-001/32	Based on patent EP 269723
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Based on patent WO 8707770

DE 3618452	C2	20	H01Q-001/32		
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Abstract (Basic): DE 3618452 A

The screen heater comprises parallel conductor strips supplied via supply rails and shaped for the desired style of the application. At least two suitable connection points are selected which together with neighbouring earth points on the window surround from terminals for at least two diversity antennae. On these terminals are attached a circuit with suitable transformation and amplification properties whose output forms the antenna connection point for one of the antennae.

If need be, the supply rails are broken at set points, and in the dc feed circuits which allow dc feed and simultaneously form a loss-free high-frequency impedance to earth.

ADVANTAGE - Mean reception quality is good, with low noise.

0/13

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